PART IV—General Mortality Statistics

Chart 4.1 Age-Adjusted Mortality Rates

Calendar Years 1990-1992

In 1990-1992, the age-adjusted mortality rate (all causes) for the IHS service area population was 598.1. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the rate is 735.3. This is 43 percent higher than the U.S. All Races rate of 513.7 for 1991. The Aberdeen rate (1,048.7) was more than double the U.S. rate.

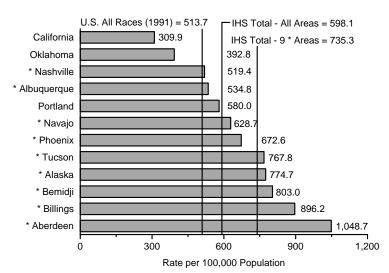


Table 4.1 Age-Adjusted Mortality Rates (All Causes)

Calendar Years 1990-1992

	Total Deaths	Rate 1
U.S. All Races (1991)	2,169,518	513.7
All IHS Areas	19,425	598.1
9* Areas ²	13,223	735.3
Aberdeen*	1,921	1048.7
Alaska*	1,746	774.7
Albuquerque*	977	534.8
Bemidji*	1,258	803.0
Billings*	1,016	896.2
California	908	309.9
Nashville*	788	519.4
Navajo*	3,082	628.7
Oklahoma	3,459	392.8
Phoenix*	1,944	672.6
Portland	1,835	580.0
Tucson*	491	767.8

¹ Rate per 100,000 population.

 $^{^2}$ The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a problem with underreporting of Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

Chart 4.2 Years of Productive Life Lost Rates

Calendar Years 1990-1992

In 1990-1992, the years of productive life lost rate (all causes) for the IHS service area population was 83.0. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the rate is 104.4. This is nearly double the U.S. All Races rate of 55.6 for 1991. Each of the remaining 9 IHS Areas had a rate greater than the U.S. All Races rate.

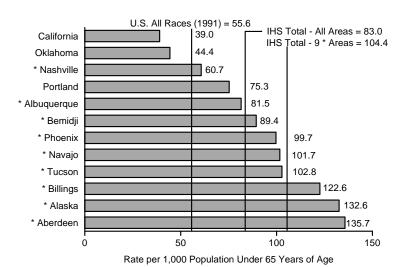


Table 4.2 **Years of Productive Life Lost (YPLL) Rates (All Causes)**

Calendar Years 1990-1992

	Number of	
	YPLL ¹	Rate 2
U.S. All Races (1991)	12,565,117	55.6
All IHS Areas	291,269	83.0
9* Areas ³	218,663	104.4
Aberdeen*	30,870	135.7
Alaska*	33,597	132.6
Albuquerque*	15,984	81.5
Bemidji*	15,906	89.4
Billings*	16,936	122.6
California	11,789	39.0
Nashville*	8,995	60.7
Navajo*	53,745	101.7
Oklahoma	32,721	44.4
Phoenix*	35,329	99.7
Portland	28,096	75.3
Tucson*	7,301	102.8

¹ Years of Productive Life Lost (YPLL) is a mortality indicator which measures the burden of premature deaths. It is calculated by subtracting the age at death from age 65 and summing the result over all deaths.



² Rate per 1,000 population under 65 years of age.

 $^{^3}$ The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a problem with underreporting of Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

Chart 4.3 Leading Causes of Death

All IHS Areas, Calendar Years 1990-1992

In 1990-1992, 21.9 percent of all deaths in the IHS service area were caused by diseases of the heart. This was followed by accidents and adverse effects at 15.1 percent.

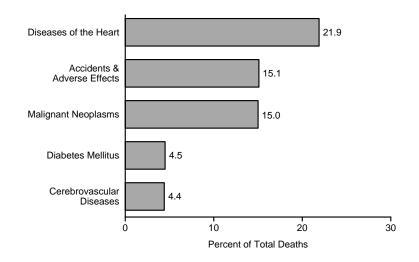


Chart 4.4 Leading Causes of Death

U.S. All Races. Calendar Year 1991

In 1991, 33.2 percent of all deaths in the U.S. were caused by diseases of the heart. This was followed by malignant neoplasms at 23.7 percent.

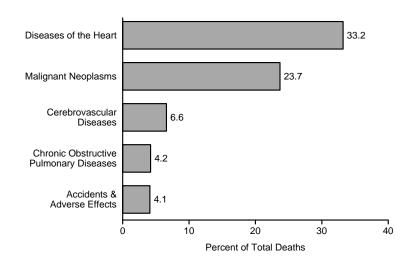


Chart 4.5 Leading Causes of Death

Aberdeen Area, Calendar Years 1990-1992

In 1990-1992, 21.1 percent of all deaths in the Aberdeen Area were caused by diseases of the heart. This was followed by malignant neoplasms at 15.1 percent.

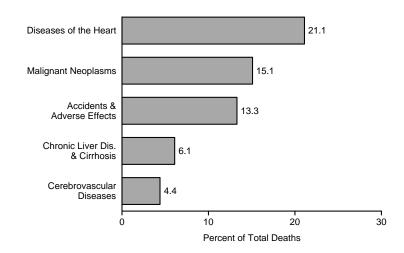


Chart 4.6 Leading Causes of Death

Alaska Area, Calendar Years 1990-1992

In 1990-1992, 22.0 percent of all deaths in the Alaska Area were caused by accidents and adverse effects. This was followed by malignant neoplasms at 16.8 percent.

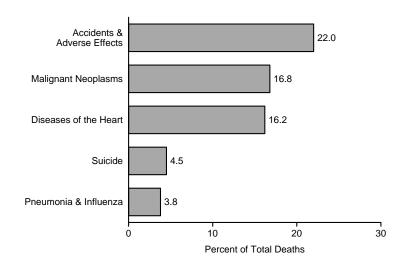


Chart 4.7 Leading Causes of Death

Albuquerque Area, Calendar Years 1990-1992

In 1990-1992, 17.3 percent of all deaths in the Albuquerque Area were caused by accidents and adverse effects. This was followed by diseases of the heart at 14.5 percent.

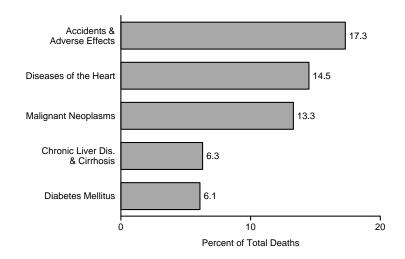


Chart 4.8 Leading Causes of Death

Bemidji Area, Calendar Years 1990-1992

In 1990-1992, 26.9 percent of all deaths in the Bemidji Area were caused by diseases of the heart. This was followed by malignant neoplasms at 18.5 percent.

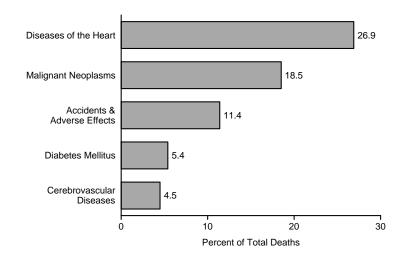


Chart 4.9 Leading Causes of Death

Billings Area, Calendar Years 1990-1992

In 1990-1992, 18.6 percent of all deaths in the Billings Area were caused by diseases of the heart. This was followed by accidents and adverse effects at 15.6 percent.

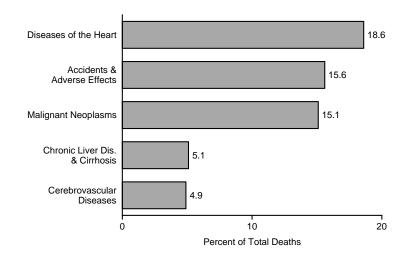


Chart 4.10 Leading Causes of Death

California Area, Calendar Years 1990-1992

In 1990-1992, 26.2 percent of all deaths in the California Area were caused by diseases of the heart. This was followed by malignant neoplasms at 16.5 percent.

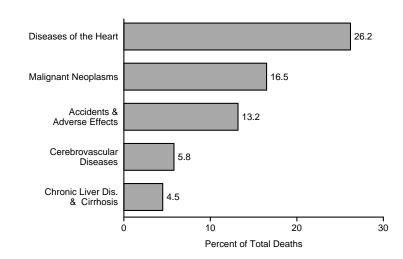


Chart 4.11 Leading Causes of Death

Nashville Area, Calendar Years 1990-1992

In 1990-1992, 27.7 percent of all deaths in the Nashville Area were caused by diseases of the heart. This was followed by malignant neoplasms at 18.3 percent.

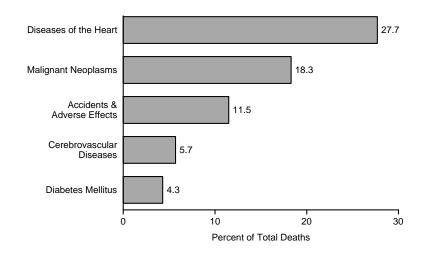


Chart 4.12 Leading Causes of Death

Navajo Area, Calendar Years 1990-1992

In 1990-1992, 22.6 percent of all deaths in the Navajo Area were caused by accidents and adverse effects. This was followed by diseases of the heart at 15.7 percent.

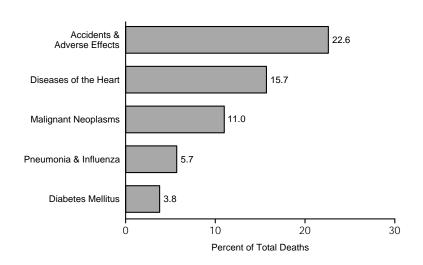


Chart 4.13 **Leading Causes of Death**

Oklahoma Area, Calendar Years 1990-1992

In 1990-1992, 32.4 percent of all deaths in the Oklahoma Area were caused by diseases of the heart. This was followed by malignant neoplasms at 19.1 percent.

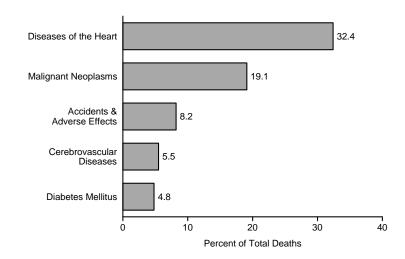


Chart 4.14 Leading Causes of Death

Phoenix Area, Calendar Years 1990-1992

In 1990-1992, 17.3 percent of all deaths in the Phoenix Area were caused by diseases of the heart. This was followed by accidents and adverse effects at 16.8 percent.

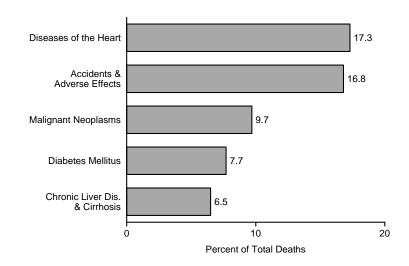


Chart 4.15 Leading Causes of Death

Portland Area, Calendar Years 1990-1992

In 1990-1992, 22.6 percent of all deaths in the Portland Area were caused by diseases of the heart. This was followed by malignant neoplasms at 15.3 percent.

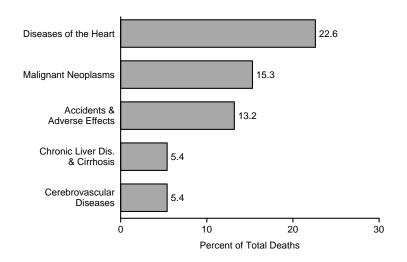


Chart 4.16 Leading Causes of Death

Tucson Area. Calendar Years 1990-1992

In 1990-1992, 15.9 percent of all deaths in the Tucson Area were caused by diseases of the heart. This was followed by accidents and adverse effects at 13.0 percent.

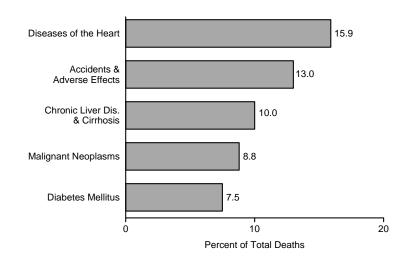


Chart 4.17 Age-Adjusted Injury and Poisoning Mortality Rates

Calendar Years 1990-1992

In 1990-1992, the age-adjusted injury and poisoning mortality rate for the IHS service area population was 117.6. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the rate is 156.2. This is nearly 3 times the U.S. All Races rate of 54.2 for 1991. Four Areas (Alaska, Navajo, Aberdeen, and Billings) had rates exceeding 175.0.

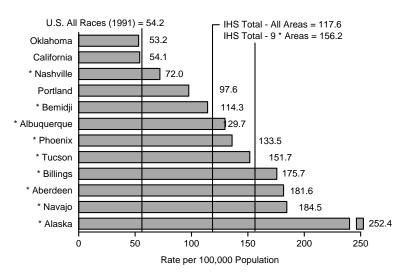




Table 4.17 Age-Adjusted Injury and Poisoning¹ Mortality Rates

Calendar Years 1990-1992

	Deaths ²	Rate 3
U.S. All Races (1991)	149,187	54.2
All IHS Areas	4,115	117.6
9* Areas 4	3,159	156.2
Aberdeen*	371	181.6
Alaska*	513	252.4
Albuquerque*	252	129.7
Bemidji*	199	114.3
Billings*	232	175.7
California	171	54.1
Nashville*	110	72.0
Navajo*	903	184.5
Oklahoma	413	53.2
Phoenix*	478	136.0
Portland	372	97.6
Tucson*	101	151.7

D--41-- 2

¹ Includes the following ICD-9 cause of death groups combined: Motor vehicle accidents-E810-E825. Other accidents-E800-E807, E826-E949. Suicide-E950-E959. Homicide-E960-E978. Injury undetermined whether accidentally or purposely inflicted-E980-E989. Injury resulting from operations of war-E990-E999.

 $^{^2}$ Incudes deaths with age not reported. For IHS, includes Albuquerque-1 death, Oklahoma-2 deaths, and Phoenix-1 death.

³ Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

⁴ The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a problem with underreporting of Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

Chart 4.18 Age-Adjusted Accident Mortality Rates

Calendar Years 1990-1992

In 1990-1992, the age-adjusted accident mortality rate for the IHS service area population was 83.2. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the rate is 113.3. This is 265 percent higher than the U.S. All Races rate of 31.0 for 1991. The Alaska Area had the highest rate (150.5), and the Navajo Area was second (143.3). For the IHS service area, 23.5 percent of the motor vehicle accidents were pedestrian-related compared to 15.2 percent for the U.S. All Races population.

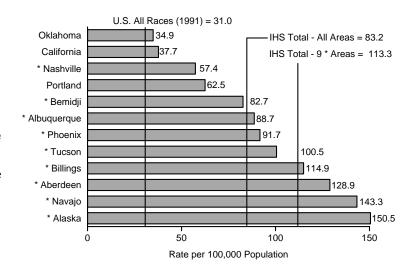


Table 4.18 **Age-Adjusted Accident Mortality Rates**

Motor Vehicle Accidents

Calendar Years 1990-1992

			_	Pede	strian-related 1	-	
All Acc	dents	Tota	als		Percent of Motor Vehicle Accident	Other Ac	cidents
Deaths	Rate 2	Deaths	Rate 2	Deaths	Deaths	Deaths	Rate 2
89,347	31.0	43,536	17.0	6,624	15.2%	45,811	13.9
2,898	83.2	1,644	47.5	386	23.5%	1,291	37.6
2,269	113.3	1,278	63.9	317	24.8%	1,012	50.5
256	128.9	159	80.1	26	16.4%	97	48.8
382	150.5	79	31.5	24	30.4%	305	119.7
169	88.7	110	56.4	44	40.0%	59	32.3
144	82.7	89	52.2	15	16.9%	55	30.5
151	114.9	101	76.9	12	11.9%	57	43.0
118	37.7	71	22.2	15	21.1%	49	16.2
89	57.4	58	37.7	12	20.7%	33	21.0
696	143.3	438	89.3	130	29.7%	260	54.4
274	34.9	171	22.4	33	19.3%	112	13.5
318	91.7	205	58.6	44	21.5%	121	35.3
237	62.5	124	33.0	21	16.9%	118	30.7
64	100.5	39	58.7	10	25.6%	25	41.8
	Deaths 89,347 2,898 2,269 256 382 169 144 151 118 89 696 274 318 237	89,347 31.0 2,898 83.2 2,269 113.3 256 128.9 382 150.5 169 88.7 144 82.7 151 114.9 118 37.7 89 57.4 696 143.3 274 34.9 318 91.7 237 62.5	Deaths Rate 2 Deaths 89,347 31.0 43,536 2,898 83.2 1,644 2,269 113.3 1,278 256 128.9 159 382 150.5 79 169 88.7 110 144 82.7 89 151 114.9 101 118 37.7 71 89 57.4 58 696 143.3 438 274 34.9 171 318 91.7 205 237 62.5 124	Deaths Rate 2 Deaths Rate 2 89,347 31.0 43,536 17.0 2,898 83.2 1,644 47.5 2,269 113.3 1,278 63.9 256 128.9 159 80.1 382 150.5 79 31.5 169 88.7 110 56.4 144 82.7 89 52.2 151 114.9 101 76.9 118 37.7 71 22.2 89 57.4 58 37.7 696 143.3 438 89.3 274 34.9 171 22.4 318 91.7 205 58.6 237 62.5 124 33.0	All Accidents Totals Deaths Rate ² Deaths Rate ² Deaths Rate ² Deaths Rate ² Deaths Deaths Rate ² Deaths Deaths <th< td=""><td>All Accidents Totals Vehicle Accident Deaths Rate 2 Deaths Rate 2 89,347 31.0 43,536 17.0 6,624 15.2% 2,898 83.2 1,644 47.5 386 23.5% 2,269 113.3 1,278 63.9 317 24.8% 256 128.9 159 80.1 26 16.4% 382 150.5 79 31.5 24 30.4% 169 88.7 110 56.4 44 40.0% 144 82.7 89 52.2 15 16.9% 151 114.9 101 76.9 12 11.9% 118 37.7 71 22.2 15 21.1% 89 57.4 58 37.7 12 20.7% 696 143.3 438 89.3 130 29.7% 274 34.9 171 22.4 33 19.3% 318<</td><td>All Accidents Totals Percent of Motor Vehicle Accident Other Accident Beaths Rate ² Deaths Rate ² Deaths Deaths Deaths Deaths 89,347 31.0 43,536 17.0 6,624 15.2% 45,811 2,898 83.2 1,644 47.5 386 23.5% 1,291 2,269 113.3 1,278 63.9 317 24.8% 1,012 256 128.9 159 80.1 26 16.4% 97 382 150.5 79 31.5 24 30.4% 305 169 88.7 110 56.4 44 40.0% 59 144 82.7 89 52.2 15 16.9% 55 151 114.9 101 76.9 12 11.9% 57 118 37.7 71 22.2 15 21.1% 49 89 57.4 58 37.7 12 20.7%<!--</td--></td></th<>	All Accidents Totals Vehicle Accident Deaths Rate 2 Deaths Rate 2 89,347 31.0 43,536 17.0 6,624 15.2% 2,898 83.2 1,644 47.5 386 23.5% 2,269 113.3 1,278 63.9 317 24.8% 256 128.9 159 80.1 26 16.4% 382 150.5 79 31.5 24 30.4% 169 88.7 110 56.4 44 40.0% 144 82.7 89 52.2 15 16.9% 151 114.9 101 76.9 12 11.9% 118 37.7 71 22.2 15 21.1% 89 57.4 58 37.7 12 20.7% 696 143.3 438 89.3 130 29.7% 274 34.9 171 22.4 33 19.3% 318<	All Accidents Totals Percent of Motor Vehicle Accident Other Accident Beaths Rate ² Deaths Rate ² Deaths Deaths Deaths Deaths 89,347 31.0 43,536 17.0 6,624 15.2% 45,811 2,898 83.2 1,644 47.5 386 23.5% 1,291 2,269 113.3 1,278 63.9 317 24.8% 1,012 256 128.9 159 80.1 26 16.4% 97 382 150.5 79 31.5 24 30.4% 305 169 88.7 110 56.4 44 40.0% 59 144 82.7 89 52.2 15 16.9% 55 151 114.9 101 76.9 12 11.9% 57 118 37.7 71 22.2 15 21.1% 49 89 57.4 58 37.7 12 20.7% </td

¹ Includes motor vehicle accidents having ICD-9 codes E810-E825 with a fourth digit code .7. The fourth digit code .7 indicates that a pedestrian was the subject decedent as a result of the motor vehicle accident.

² Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

³ The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a problem with underreporting of Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

Chart 4.19 Age-Adjusted Suicide Mortality Rates

Calendar Years 1990-1992

Tn 1990-1992, the **L**age-adjusted suicide mortality rate for the IHS service area population was 16.2. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the rate is 21.1. This is 85 percent higher than the U.S. All Races rate of 11.4 for 1991. Four Areas (Alaska, Billings, Aberdeen, and Albuquerque) had rates more than double the U.S. rate.

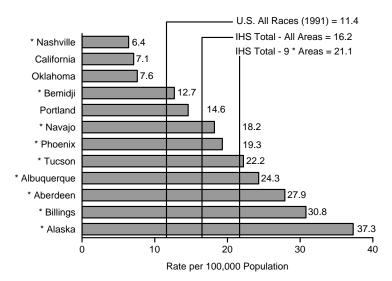




Table 4.19 **Age-Adjusted Suicide Mortality Rates**

Calendar Years 1990–1992

	Deaths	Rate 1
U.S. All Races (1991)	30,810	11.4
All IHS Areas	572	16.2
9* Areas ²	437	21.1
Aberdeen*	59	27.9
Alaska*	79	37.3
Albuquerque*	50	24.3
Bemidji*	23	12.7
Billings*	40	30.8
California	22	7.1
Nashville*	9	6.4
Navajo*	91	18.2
Oklahoma	58	7.6
Phoenix*	70	19.3
Portland	55	14.6
Tucson*	16	22.2

¹ Age-adjusted rate per 100,000 population. Rates based on a small number of deaths should be interpreted with caution.

 $^{^2}$ The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a problem with underreporting of Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

Rates

Calendar Years 1990-1992

9* Areas ² Aberdeen* Alaska* Albuquerque* Bemidji* Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	U.S. All Races (1991)	26,51
Aberdeen* Alaska* Albuquerque* Bemidji* Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	All IHS Areas	520
Alaska* Albuquerque* Bemidji* Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	9* Areas ²	37
Albuquerque* Bemidji* Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	Aberdeen*	4
Bemidji* Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	Alaska*	40
Billings* California Nashville* Navajo* Oklahoma Phoenix* Portland	Albuquerque*	2
California Nashville* Navajo* Oklahoma Phoenix* Portland	Bemidji*	2
Nashville* Navajo* Oklahoma Phoenix* Portland	Billings*	2
Navajo* Oklahoma Phoenix* Portland	California	25
Oklahoma Phoenix* Portland	Nashville*	:
Phoenix* Portland	Navajo*	98
Portland	Oklahoma	6-
	Phoenix*	7:
Tucson*	Portland	6
	Tucson*	2

Deaths



¹ Age-adjusted rate per 100,000 population. Rates based on a should be interpreted with caution.

² The 3 IHS Areas that do not have an asterisk (California, appear to have a problem with underreporting of Indian ra Therefore a separate IHS rate was calculated excluding these





Injury and Poisonii Other Causes¹

Calendar Years 1990–1992

U.S. All Races (1991)

All IHS Areas

9* Areas 3

Aberdeen*

Alaska*

Albuquerque*

Bemidji*

Billings* California

Nashville*

Navaio*

Oklahoma

Phoenix*

Portland

Tucson*

service area, 1990-1992).

¹ Includes the following ICD-9 cause of death whether accidentally or purposely inflicted-E98 of war-E990-E999 there were 10 deaths due to 1991 and 0 deaths for the American Indian a

² Age-adjusted rate per 100,000 population. Rashould be interpreted with caution.

³ The 3 IHS Areas that do not have an asteri appear to have a problem with underreporting Therefore a separate IHS rate was calculated of

Calendar Years 1990–1992

	_		Numbe	er of Deat	hs and ICI	D-9 Cause	es of Deat	h Grou
	All Causes	291	303	305.0	425.5	535.3	571.0- 571.3	790
U.S. All Races (1991)	19,091	361	5,055	804	891	92	11,702	2
All IHS Areas	1,098	19	292	108	24	7	618	1
9* Areas ²	875	14	236	92	19	4	484	1
Aberdeen*	141	1	38	7	3	_	91	-
Alaska*	97	2	14	24	5	1	40	1
Albuquerque*	89	5	24	6	1	_	53	-
Bemidji*	44	2	10	3	1	1	25	-
Billings*	60	1	15	1	2	_	41	-
California	50	_	18	1	1	1	29	-
Nashville*	32	_	6	2	1	1	21	-
Navajo*	238	2	90	38	6	1	92	-
Oklahoma	63	1	12	8	2	1	38	-
Phoenix*	138	1	33	10	_	_	92	-
Portland	110	4	26	7	2	1	67	-
Tucson*	36	_	6	1	_	_	29	-

¹ Age-adjusted rate per 100,000 population. The rate computation excludes 3 deaths with age not reported. number of deaths should be interpreted with caution.

² The 3 IHS Areas that do not have an asterisk (California, Oklahoma, and Portland) appear to have a proble Indian race on death certificates. Therefore a separate IHS rate was calculated excluding these 3 Areas.

^{291—}Alcoholic Psychoses; 303—Alcoholic Dependence Syndrome; 305.0—Alcohol Overdose; 425.5—Alcoholic Gastritis; 571.0–571.3—Alcoholic Liver Disease; 790.3—Elevated Blood-Alcohol Level; E86 Poisoning by Alcohol, not elsewhere classified.



Mortality Rates

Calendar Years 1990–1992

U.S. All Races (1991)

All IHS Areas

9* Areas 2

Aberdeen*

Alaska*

Albuquerque*

Bemidji*

Billings*

California

Nashville*

Navajo*

Oklahoma

Phoenix*

Portland

¹ Age-adjusted rate per 100,000 population. Rashould be interpreted with caution.

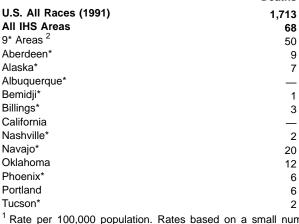
² The 3 IHS Areas that do not have an asteri appear to have a problem with underreporting Therefore a separate IHS rate was calculated of

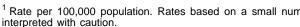
Table 4.24

Age-Adjusted Tuberculosi **Mortality Rates**

Deaths

Calendar Years 1990-1992





² The 3 IHS Areas that do not have an asterisk (California, appear to have a problem with underreporting of Indian ra Therefore a separate IHS rate was calculated excluding these







Diseases Mortality

Calendar Years 1990–1992

U.S. All Races (1991)

All IHS Areas

9* Areas 2

Aberdeen*

Alaska* Albuquerque*

Bemidji*

Billings*

California

Nashville*

Navajo* Oklahoma

Phoenix*

Portland

¹ Age-adjusted rate per 100,000 population. R should be interpreted with caution.

² The 3 IHS Areas that do not have an asteri appear to have a problem with underreportir Therefore a separate IHS rate was calculated

Heart Mortality Rates

Calendar Years 1990–1992

	Deaths
U.S. All Races (1991)	720,862
All IHS Areas	4,249
9* Areas ²	2,473
Aberdeen*	406
Alaska*	283
Albuquerque*	142
Bemidji*	338
Billings*	189
California	238
Nashville*	218
Navajo*	483
Oklahoma	1,123
Phoenix*	336
Portland	415
Tucson*	78



¹ Age-adjusted rate per 100,000 population. Rates based on a should be interpreted with caution.

² The 3 IHS Areas that do not have an asterisk (California, appear to have a problem with underreporting of Indian ra Therefore a separate IHS rate was calculated excluding these



Diseases Mortality

Calendar Years 1990–1992

U.S. All Races (1991)

All IHS Areas

9* Areas 2

Aberdeen*

Alaska*

Albuquerque*

Bemidji*

Billings*

California

Nashville*

Navajo*

Oklahoma Phoenix*

Portland

¹ Age-adjusted rate per 100,000 population. Ra should be interpreted with caution.

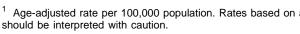
² The 3 IHS Areas that do not have an asteri appear to have a problem with underreportir Therefore a separate IHS rate was calculated

Mortality Rates

Calendar Years 1990-1992

U.S. All Races (1991)	514,657
All IHS Areas	2,906
9* Areas ²	1,815
Aberdeen*	290
Alaska*	293
Albuquerque*	130
Bemidji*	233
Billings*	153
California	150
Nashville*	144
Navajo*	340
Oklahoma	660
Phoenix*	189
Portland	281
Tucson*	43

Deaths



² The 3 IHS Areas that do not have an asterisk (California, appear to have a problem with underreporting of Indian ra Therefore a separate IHS rate was calculated excluding these







Mortality Rates For

Calendar Years 1990–1992

U.S. All Races (1991)

All IHS Areas

9* Areas 2

Aberdeen*

Alaska*

Albuquerque*

Bemidji*

Billings*

California Nashville*

Navajo*

Oklahoma

Phoenix*

Portland

¹ Age-adjusted rate per 100,000 female popula deaths should be interpreted with caution.

² The 3 IHS Areas that do not have an asteri appear to have a problem with underreportir Therefore a separate IHS rate was calculated

Calendar Years 1990-1992

U.S. All Races (1991)
All IHS Areas
9* Areas ²
Aberdeen*
Alaska*
Albuquerque*
Bemidji*
Billings*
California
Nashville*
Navajo*
Oklahoma

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Phoenix* Portland

¹ Age-adjusted rate per 100,000 female population. Rates based deaths should be interpreted with caution.

² The 3 IHS Areas that do not have an asterisk (California, appear to have a problem with underreporting of Indian ra Therefore a separate IHS rate was calculated excluding these



number of deaths involved.



Calendar Years 1990-1992

Tn 1990-1992, the life **▲**expectancy at birth for males in the IHS service area population was 69.4 years. When the 3 IHS Areas with apparent problems in underreporting of Indian race on death certificates are excluded, the life expectancy is 66.1 years. This is 5.9 years less than the 1991 figure of 72.0 years for the U.S. All Races male population. Most Areas had figures less than the U.S. figure.

